

TOP SECRET

FIG. 5B

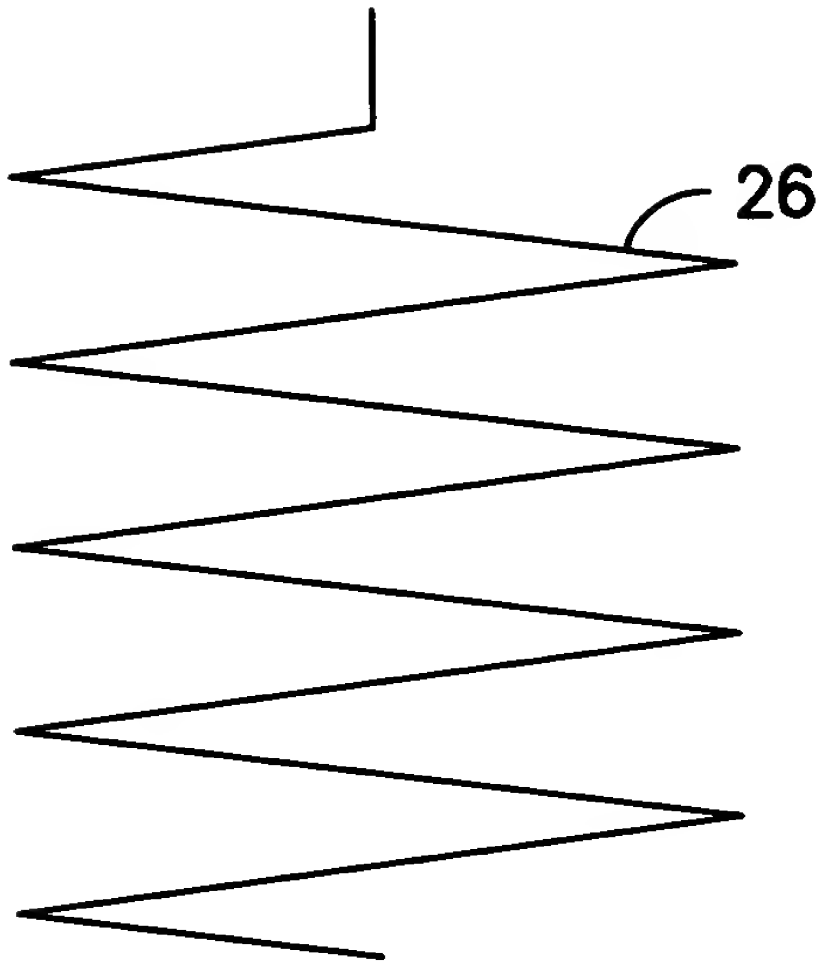


FIG. -5B-

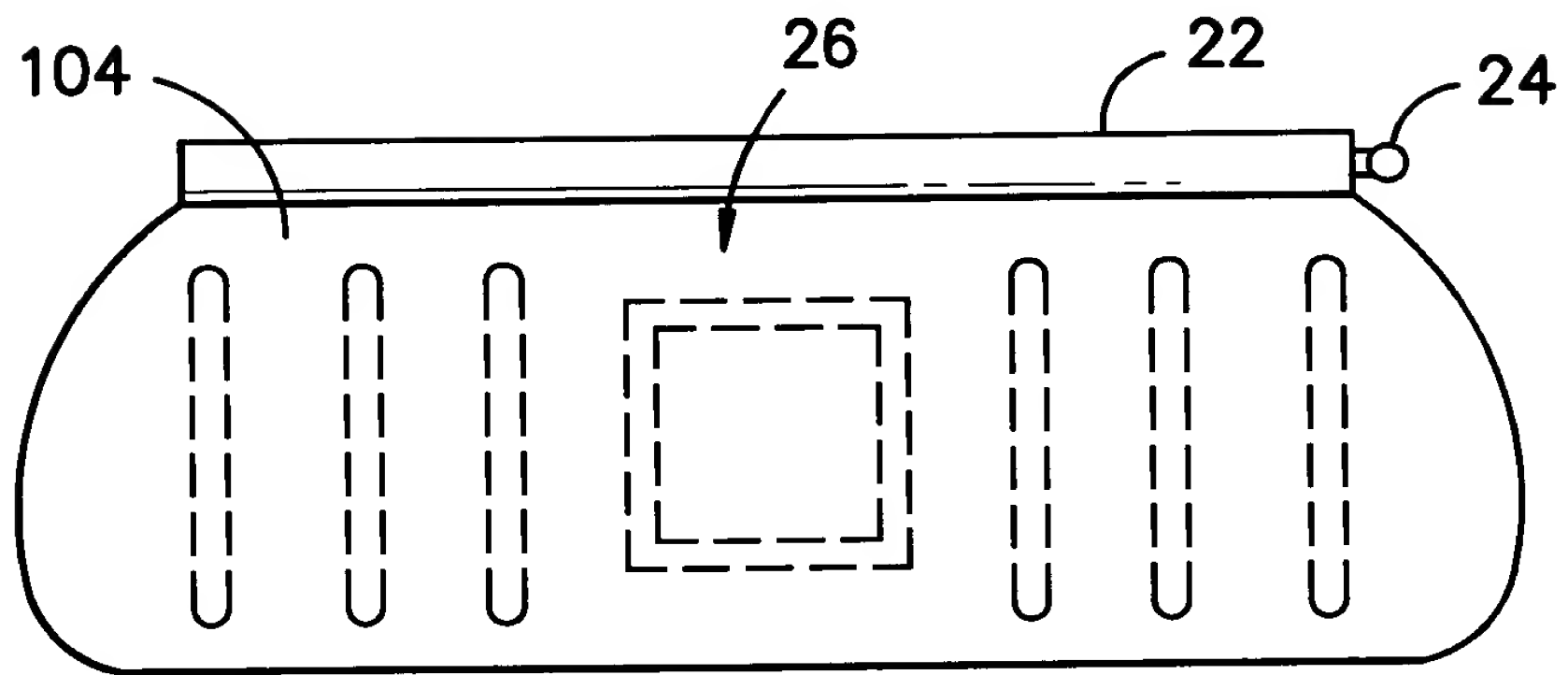


FIG. -6-

RESISTANCE TO ABRASION AND PUNCTURE HAZARDS ABRASION TESTING

TEST MEDIA
- ROADSIDE GRAVEL

TEST METHOD

- INFLATE TEST BAG TO 10 psi.
- PLACE TEST BOARD ON INFLATED BAG AND LOAD WITH A 13 lb. CONCRETE BLOCK.
- SCRUB GRAVEL BOARD ACROSS BAG AT 1 cycle / second

TEST MEASUREMENT

- MEASURE FLOW RATE REQUIRED TO MAINTAIN BAG PRESSURE AT 10 psi.

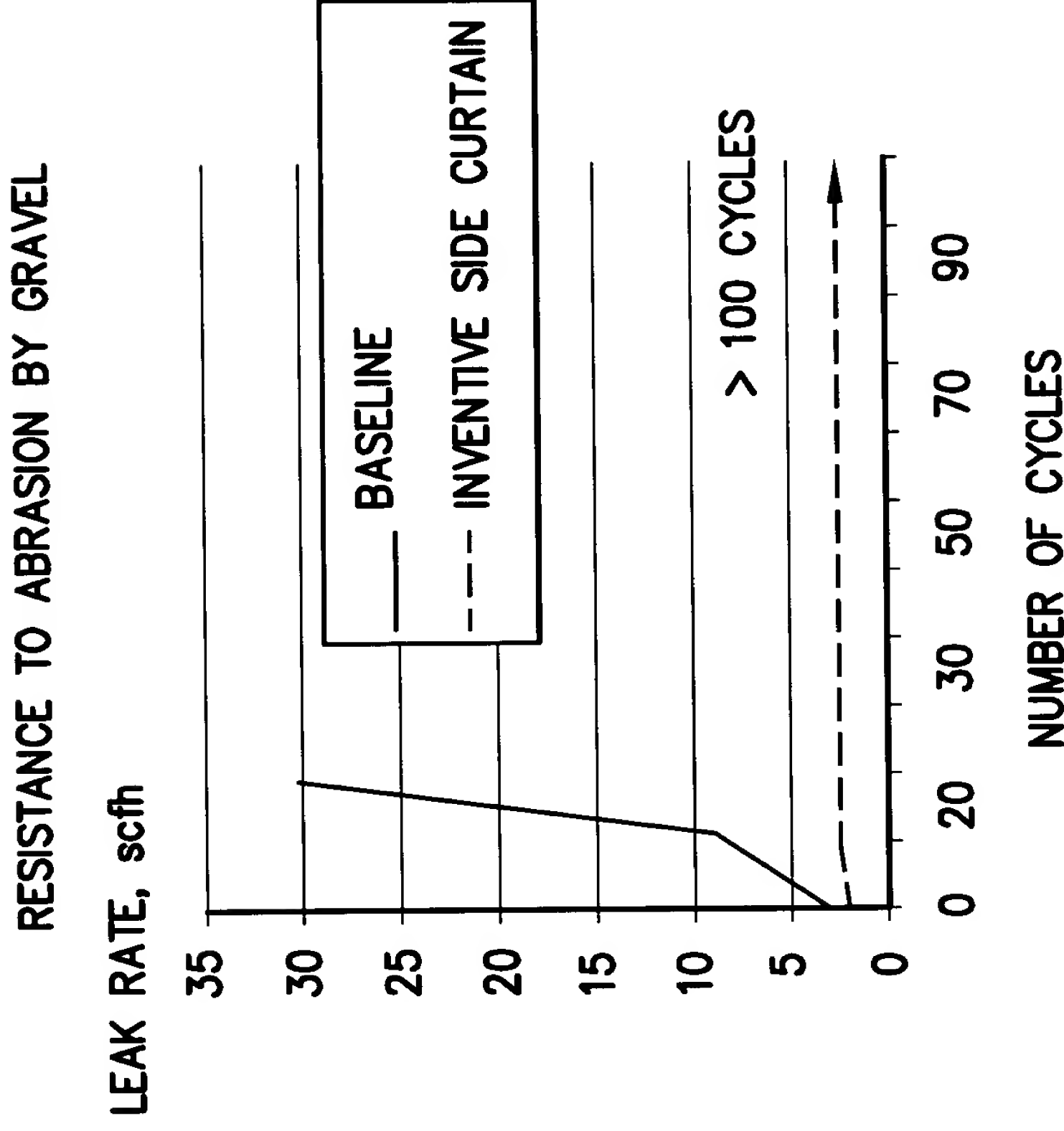


FIG. -7-

RESISTANCE TO ABRASION AND PUNCTURE HAZARDS
ABRASION TESTING

TEST MEDIA
- CONCRETE

TEST METHOD

- INFLATE TEST BAG TO 10 psi.
- PLACE CONCRETE BLOCK ON INFLATED BAG
- SCRUB CONCRETE BLOCK ACROSS BAG AT 1 cycle / second

TEST MEASUREMENT

- MEASURE FLOW RATE REQUIRED TO MAINTAIN BAG PRESSURE AT 10 psi.

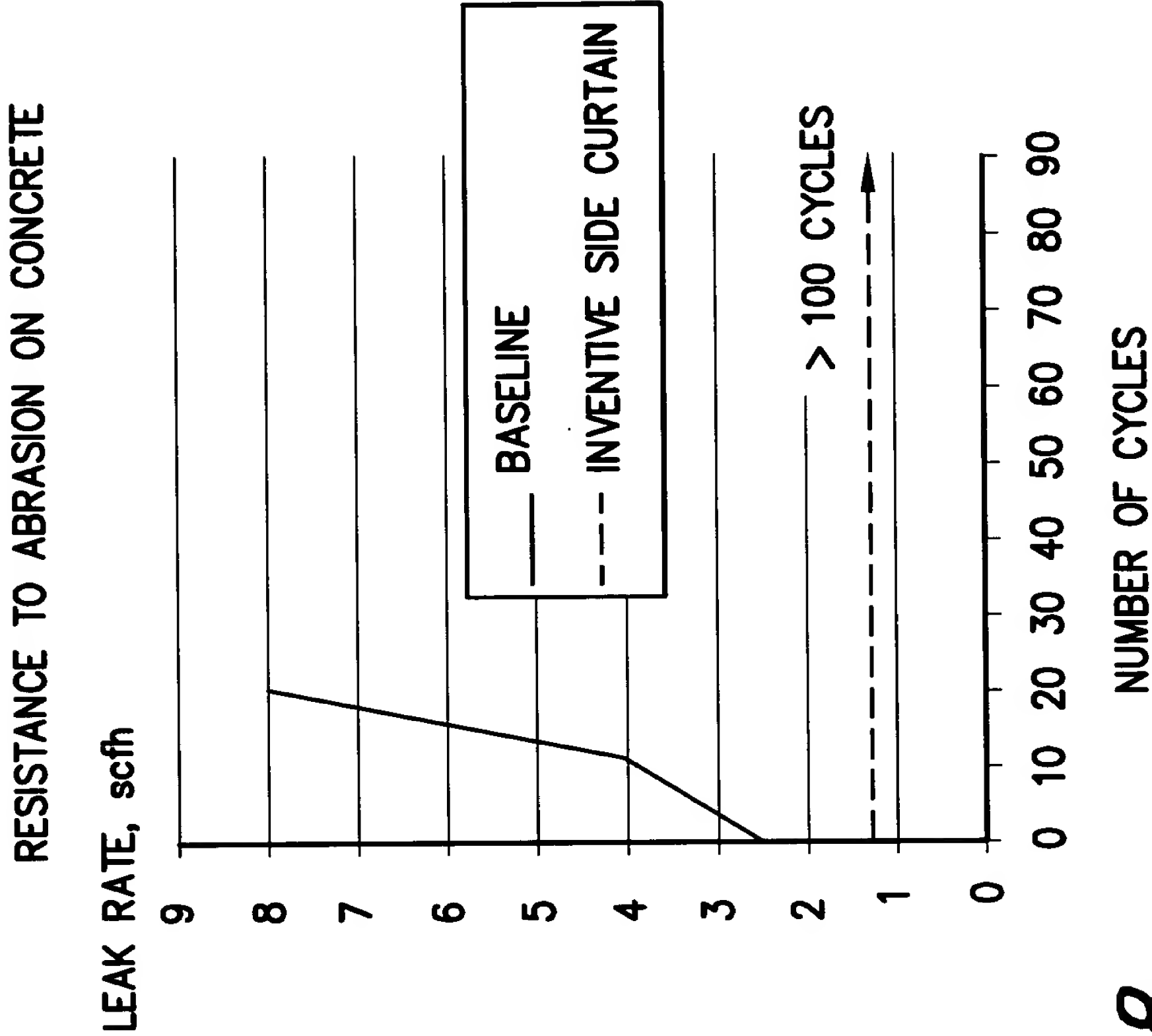


FIG. -8-

RESISTANCE TO ABRASION AND PUNCTURE HAZARDS PUNCTURE TESTING

- TEST MEDIA
- SHARDS OF SIDE WINDOW GLASS
- TEST METHOD
- DEPLOY TEST BAG TO 30 psi AGAINST PLATE COVERD WITH BROKEN GLASS.
 - DROP 25 lb WEIGHT ON PLATE AS BAG REACHES FULL INFLATION.
- TEST MEASUREMENT
- MEASURE TIME TO FALL FROM 30 psi TO 15 psi.

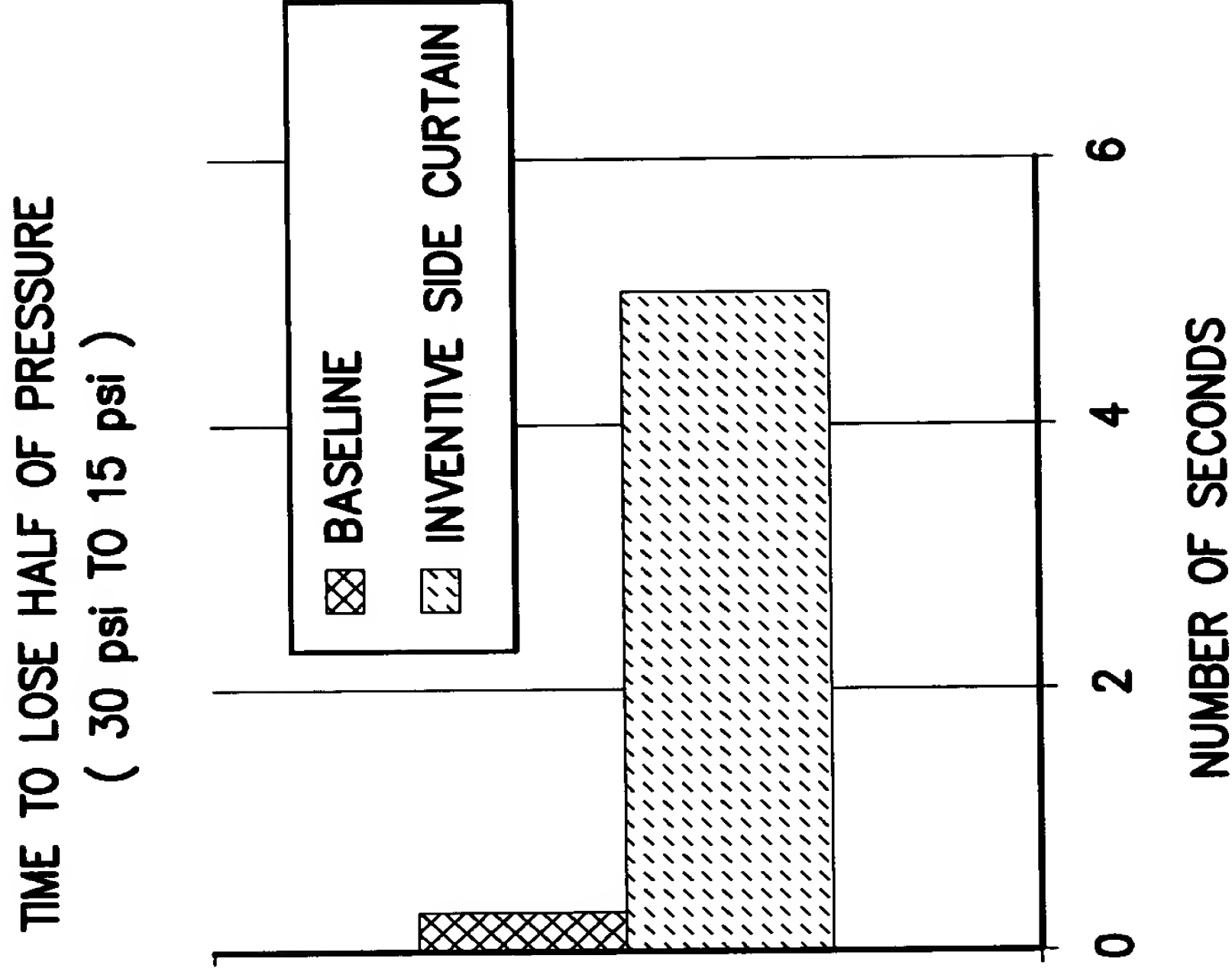


FIG. -9-

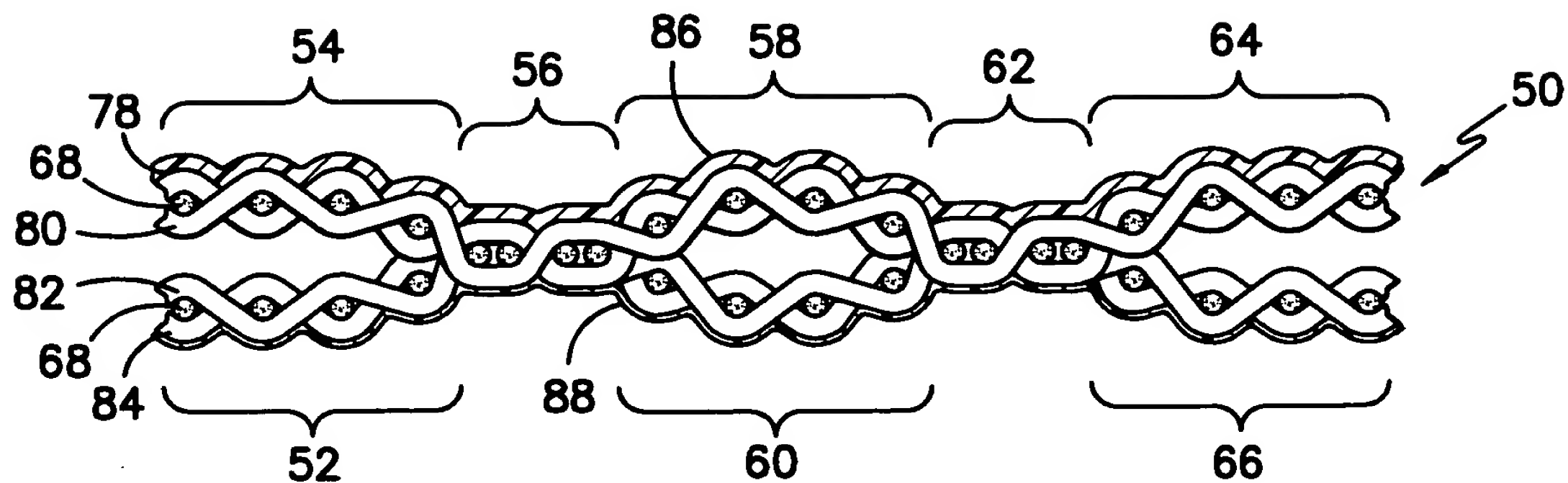


FIG. -10-

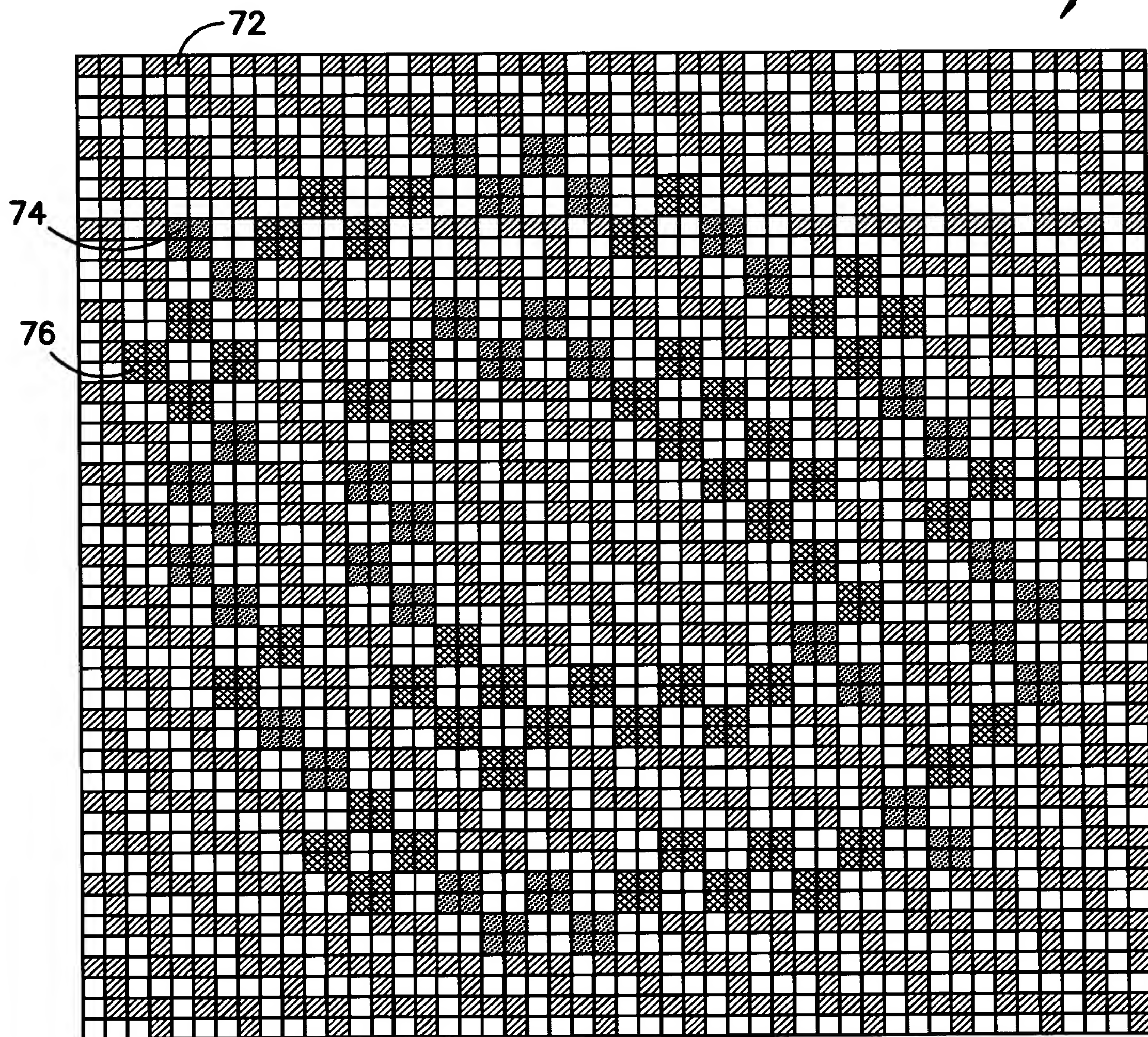


FIG. -11-

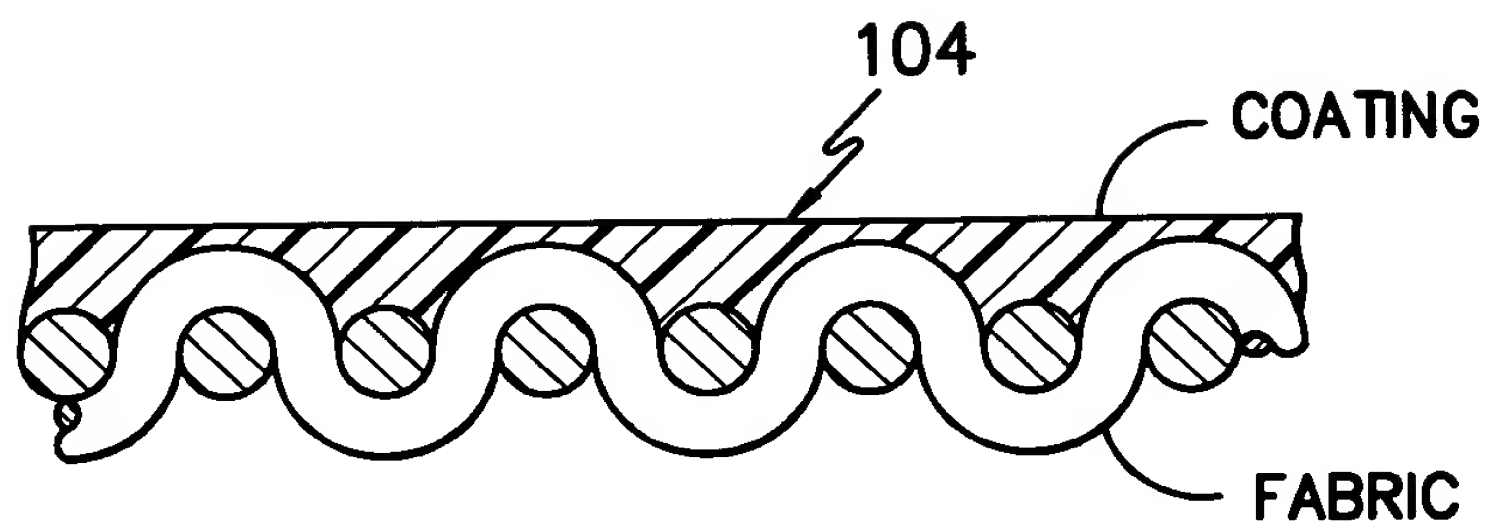


FIG. -12A-

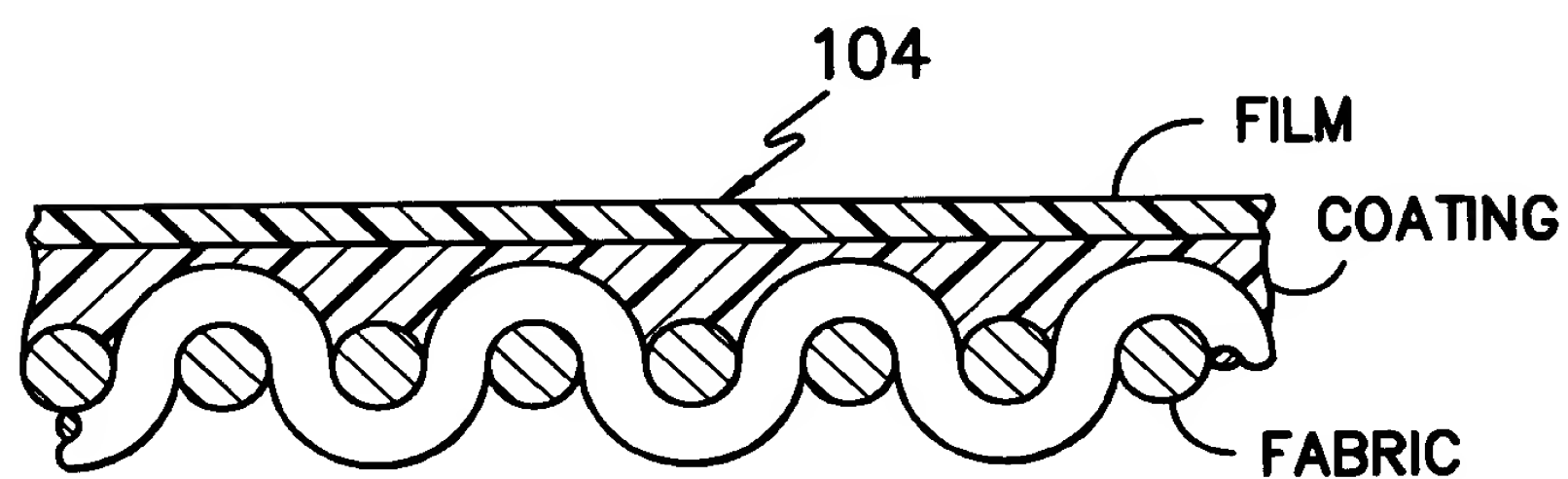


FIG. -12B-

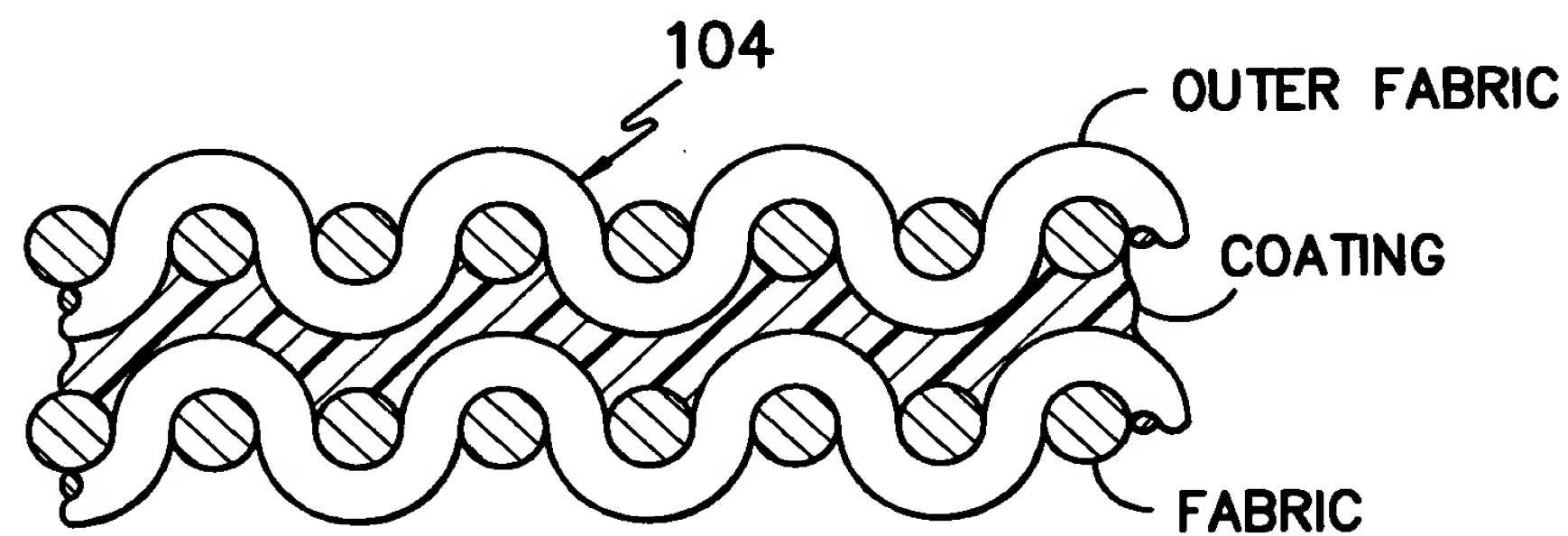


FIG. -12C-

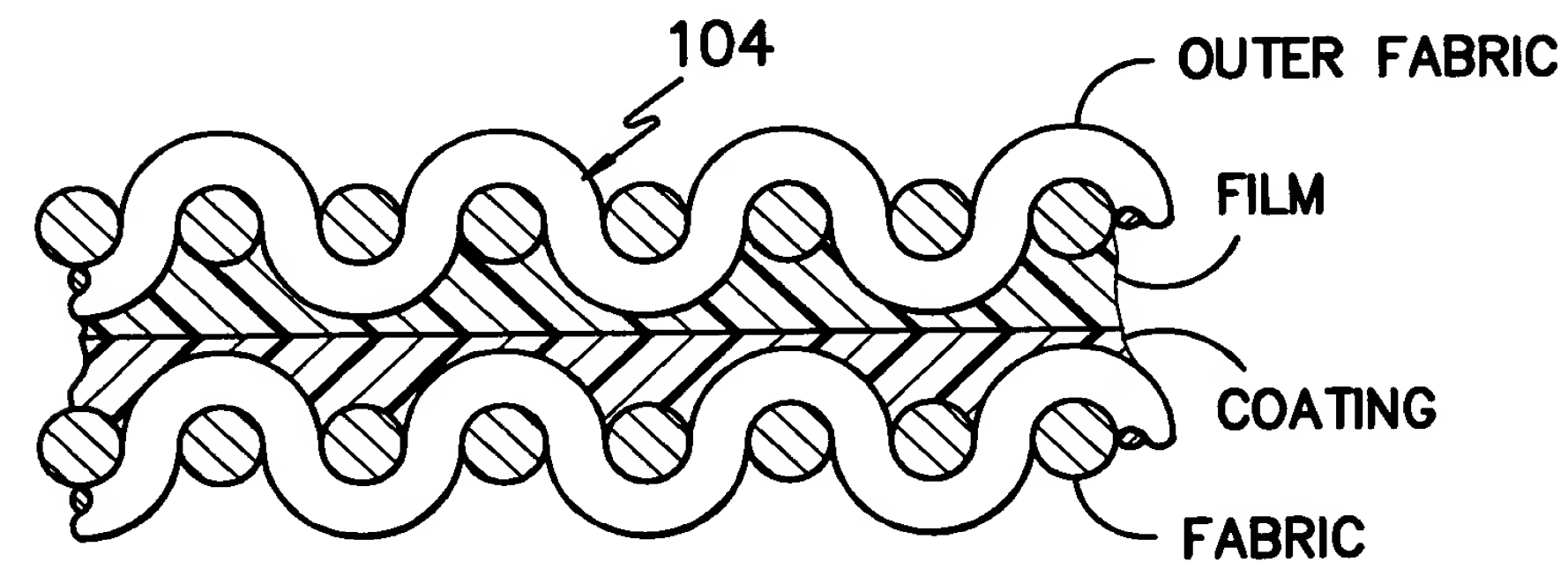


FIG. -12D-

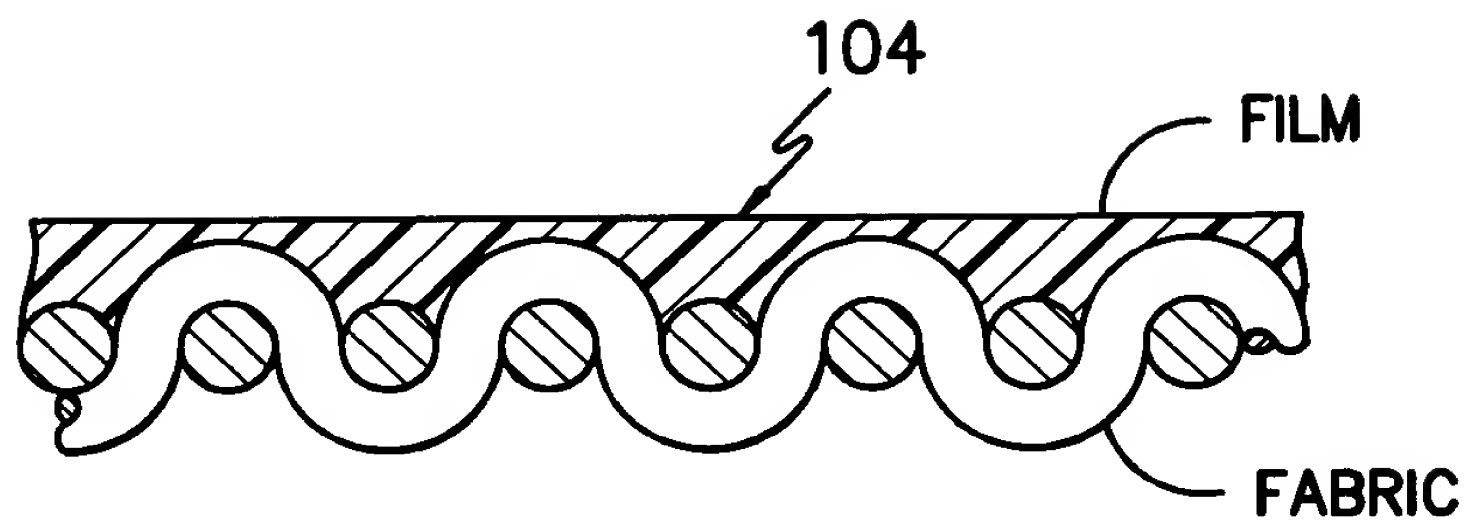


FIG. -12E-

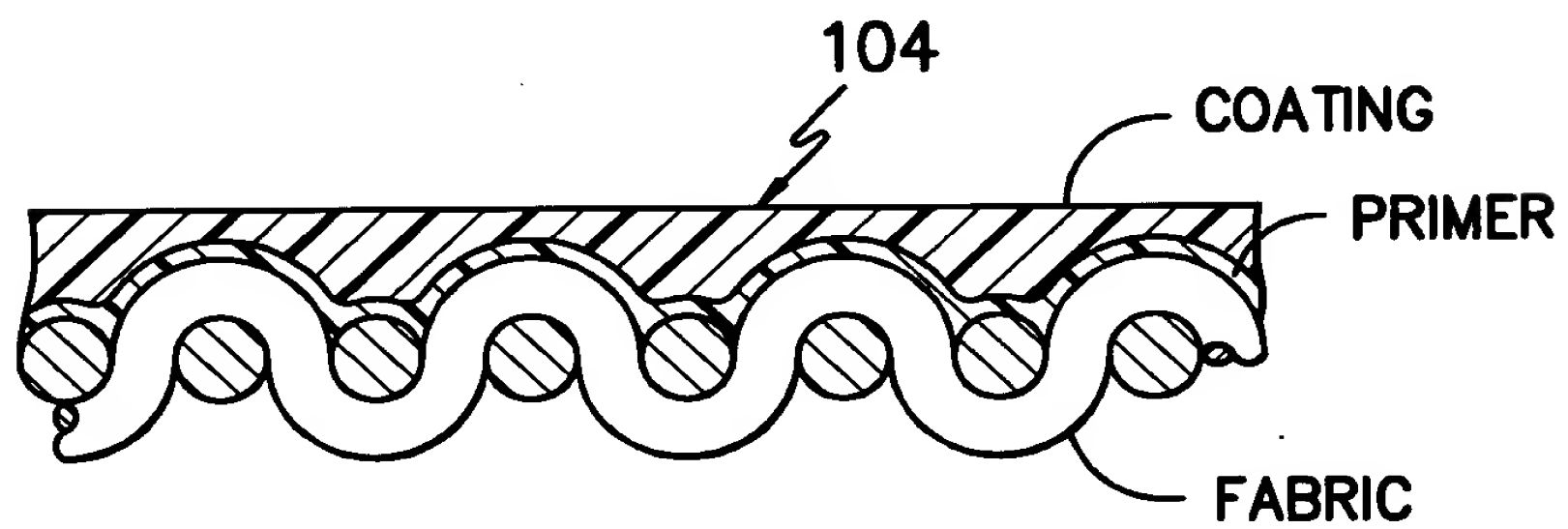


FIG. -12F-

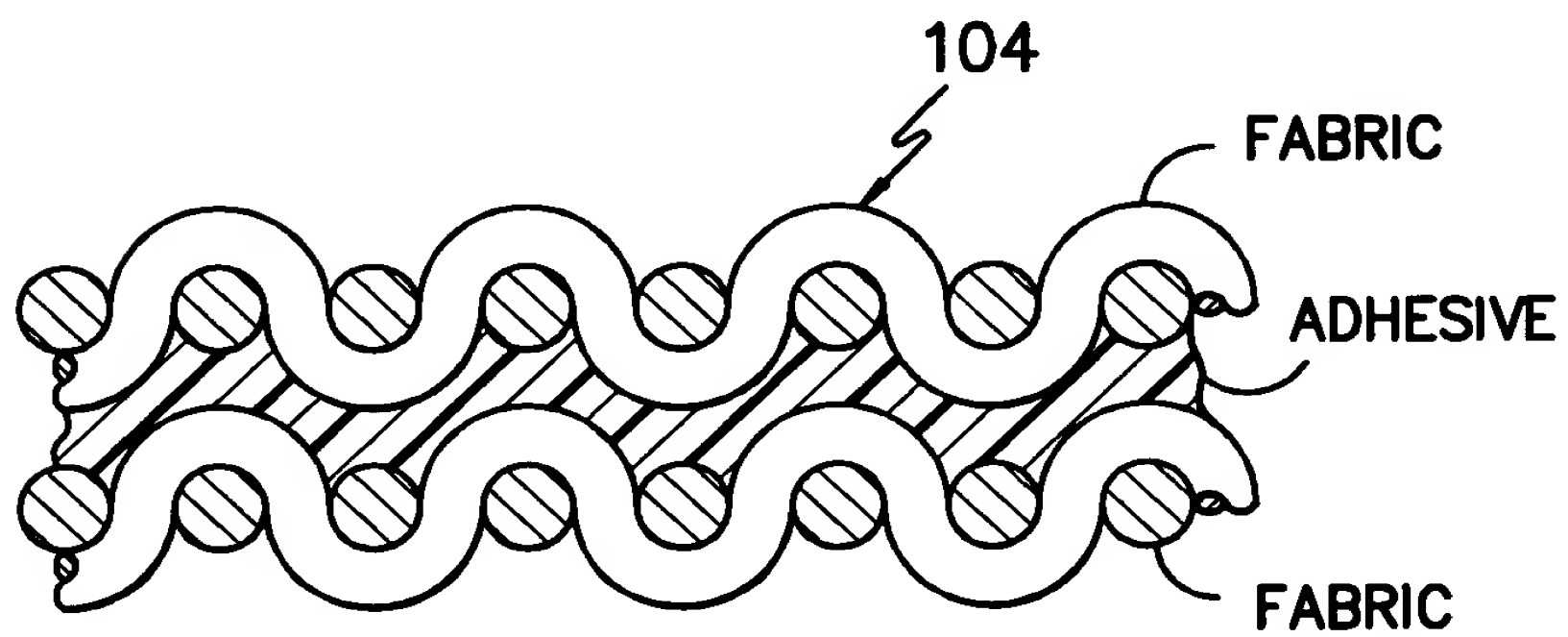


FIG. -12G-

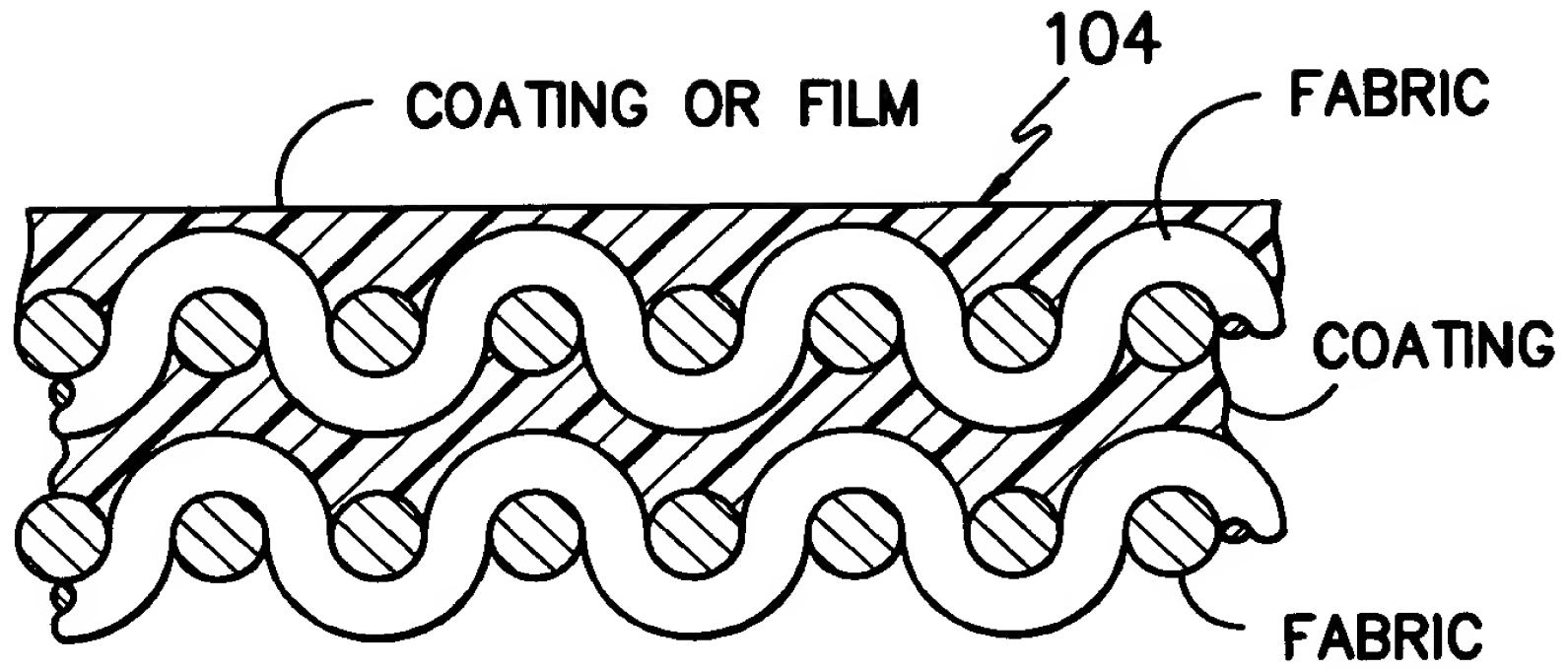


FIG. -12H-

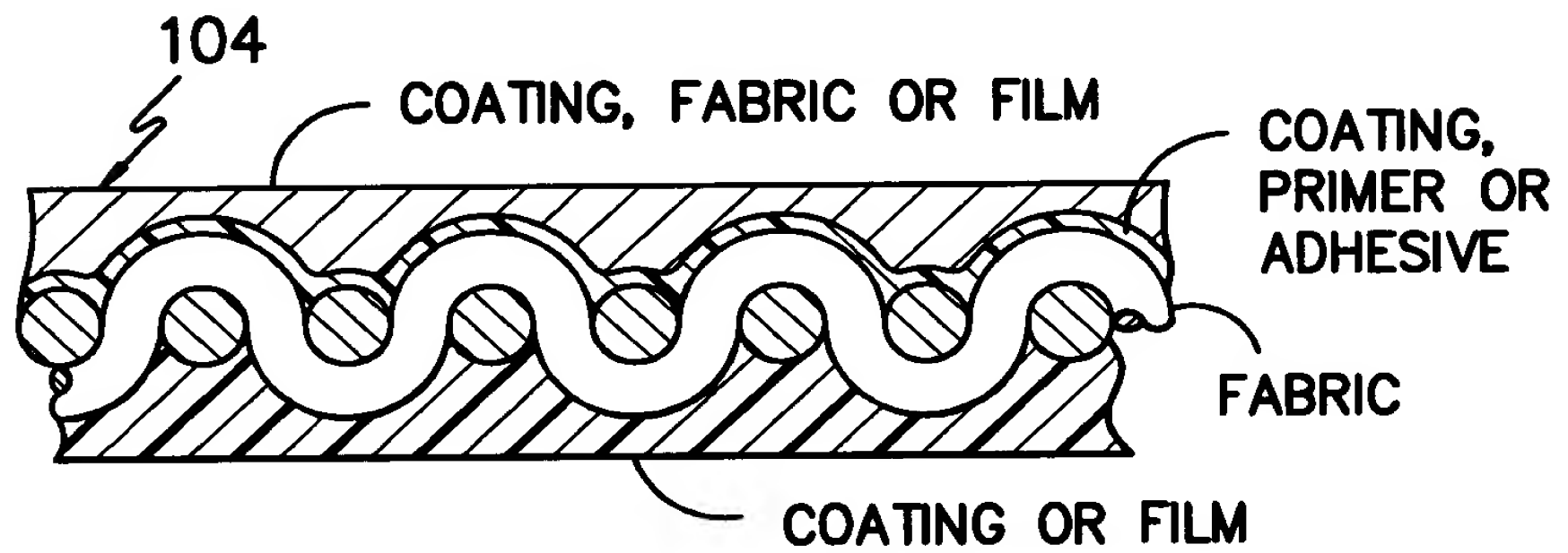


FIG. -12I-

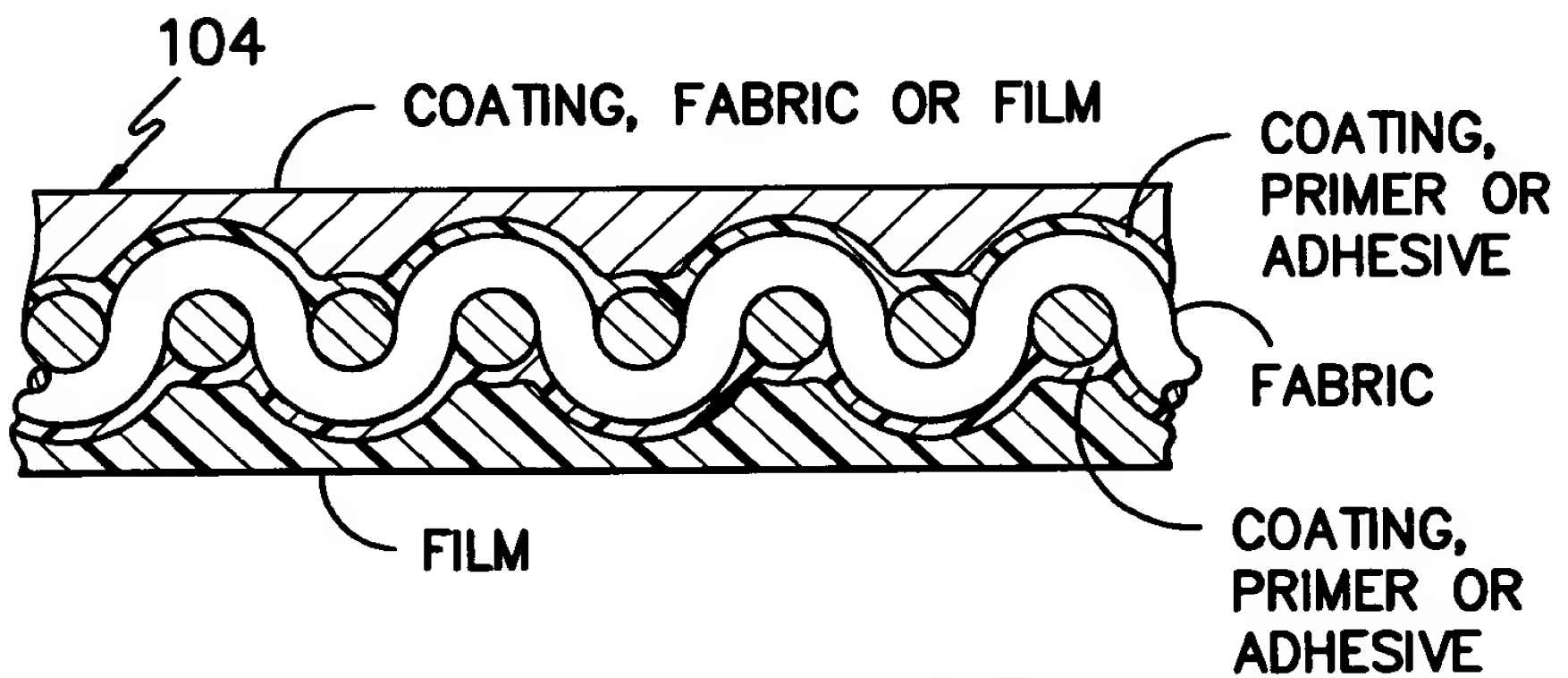


FIG. -12J-

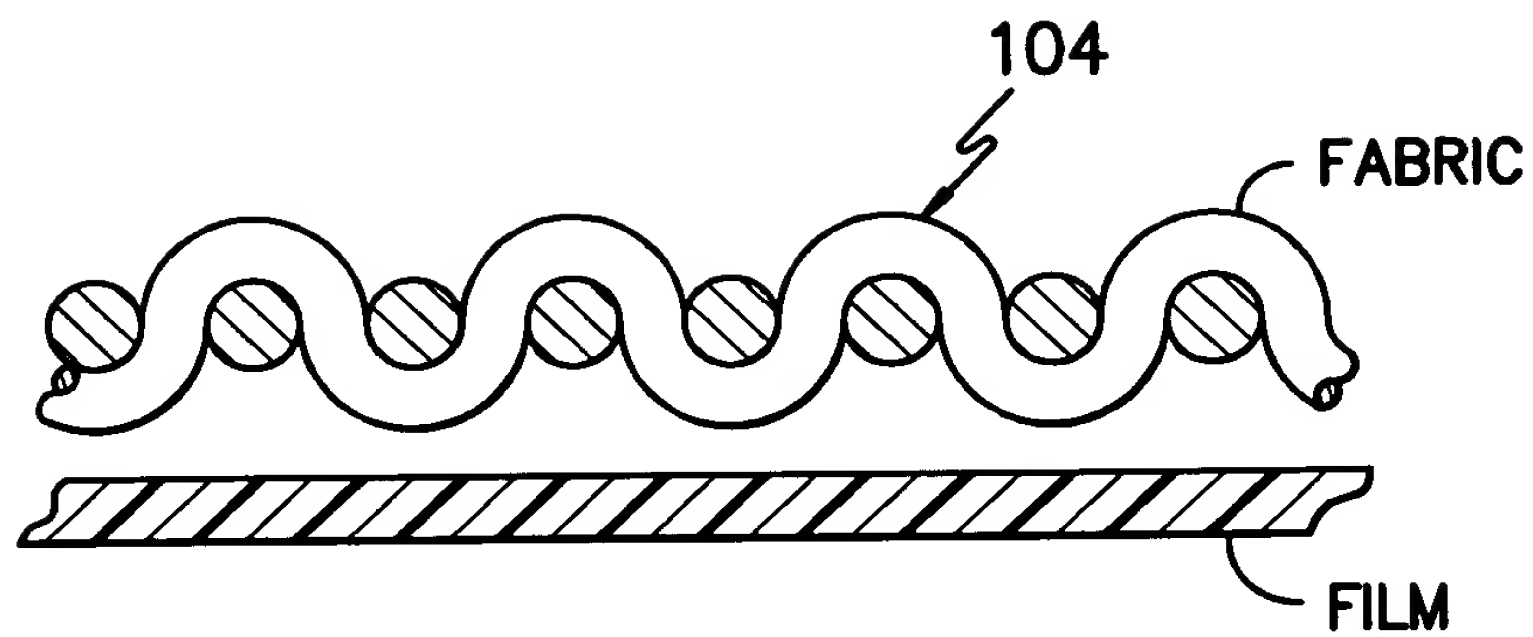


FIG. -12K-

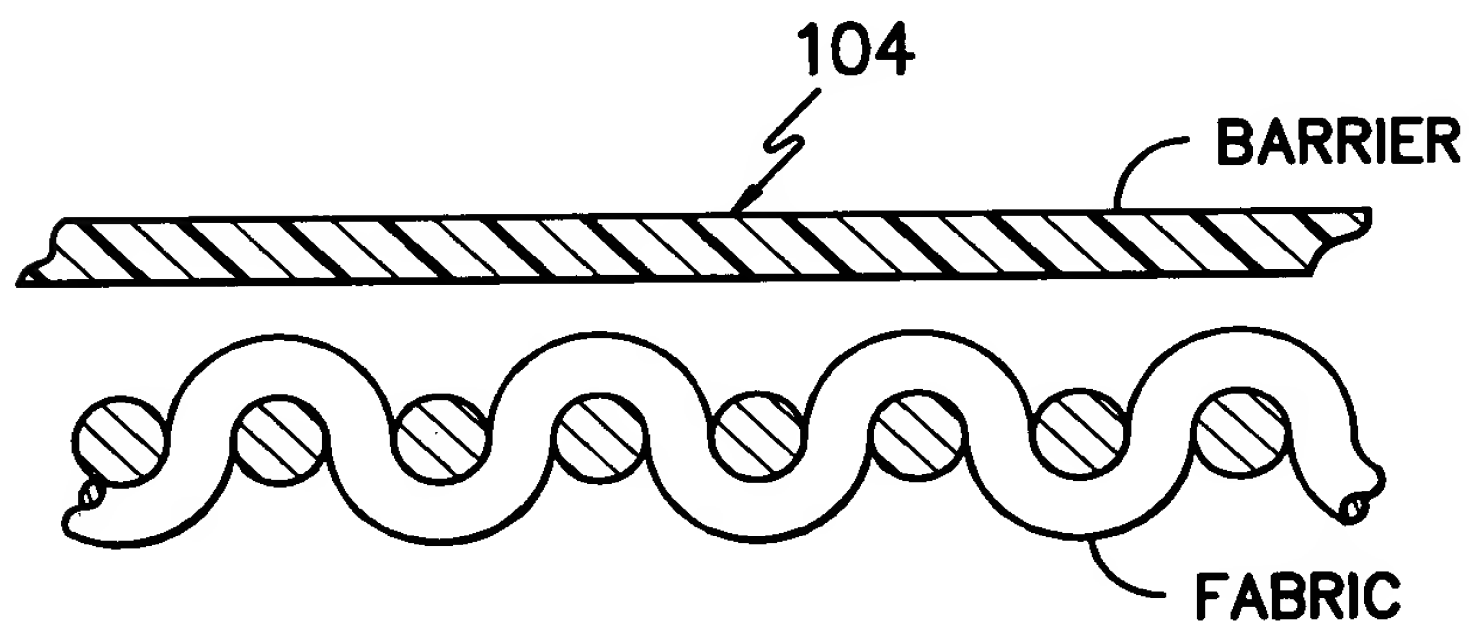


FIG. -12L-

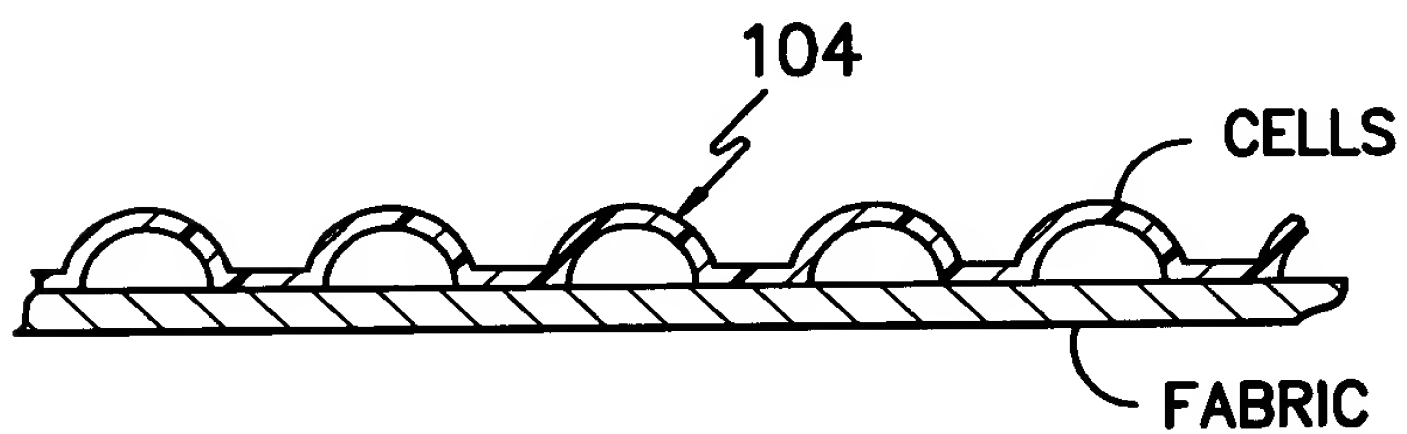


FIG. -12M-